

GILA RIVER BASIN

09444500 SAN FRANCISCO RIVER AT CLIFTON, AZ

LOCATION--Lat 33°02'58", long 109°17'43", in SW1/4SE1/4 sec. 30, T.4 S., R.30 E., Greenlee County, Hydrologic Unit 15040004, on downstream side of right pier at Railroad Boulevard Bridge (U.S. Highway 191), at Clifton, 9.9 mi upstream from mouth.

DRAINAGE AREA--2,766 mi², of which 2 mi² is noncontributing.

PERIOD OF RECORD--Oct. 1910 to Mar. 1911, July 1911 to June 1912, Sept. 1912, Nov. 1912 to Mar. 1913, May 1913 to July 1918, July 1927 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "San Francisco River at dam above Clifton" in 1911 and under both names in 1912.

REVISED RECORDS--WSP 1049: 1911, 1913-15, 1917. WSP 1283: Drainage area. WSP 1313: 1927-30(M), 1932(M), 1934(M). WRD Ariz. 1972: 1917(M).

GAGE--Water-stage recorder. Datum of gage is 3,436.16 ft above sea level. See WSP 1713 or 1733 for history of changes prior to Apr. 7, 1959. Apr. 7, 1959, to Mar. 23, 1961, at site 1,140 ft downstream at datum 5.37 ft lower. July 18, 1980 to July 28, 1983, supplementary water-stage recorder 0.4 mi upstream on right bank at same datum and June 15, 1981, to Sept. 30, 1983, crest-stage gages at site. Aug. 4, 1983, to Mar. 1, 1985, supplementary water-stage recorder on right bank at main gage site at same datum, Oct. 1, 1992, at main gage site, at datum 10.00 ft higher.

REMARKS--Records fair, except for estimated daily discharges, which are poor. Diversions for mining, municipal use, and for irrigation of about 2,700 acres above station.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 90,900 ft³/s Oct. 2, 1983, gage height, 19.72 ft, from highwater mark, from rating curve extended above 30,000 ft³/s on basis of slope-area measurement at gage height 17.0 ft; minimum daily, 6.1 ft³/s June 21, 1971.

EXTREMES FOR CURRENT YEAR--Peak discharges greater than base discharge of 2,000 ft³/s and (or) maximum (*):

	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
	Mar. 19	1015	*336	*11.60

Minimum daily discharge, 12 ft³/s July 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	53	65	71	68	242	231	85	37	22	36	62
2	55	52	64	68	66	201	217	82	39	20	32	68
3	49	52	66	67	65	236	210	79	35	17	31	59
4	49	51	74	67	68	213	206	77	30	18	31	54
5	48	50	71	63	72	211	197	71	31	18	30	51
6	56	49	68	62	74	206	197	74	32	17	23	49
7	74	49	71	59	72	192	188	67	31	17	22	52
8	92	49	71	59	74	184	179	64	30	16	24	51
9	82	49	70	60	77	182	175	59	28	14	22	48
10	70	48	70	60	74	194	167	60	29	12	20	84
11	64	47	70	64	73	219	162	59	29	15	23	177
12	60	46	69	62	73	235	157	61	26	16	23	118
13	62	45	72	67	78	243	149	64	27	19	23	90
14	60	46	72	62	204	243	142	57	27	20	25	70
15	59	42	70	63	234	247	148	50	28	14	25	63
16	57	42	70	63	192	244	161	51	29	17	31	58
17	57	42	72	65	155	283	151	46	29	20	37	54
18	62	43	78	66	137	318	144	49	30	20	34	50
19	60	50	79	63	131	318	142	46	31	17	47	49
20	57	55	80	68	120	309	137	46	27	17	39	44
21	57	57	79	70	116	294	133	49	28	20	37	40
22	59	50	80	71	105	287	127	48	27	19	35	40
23	62	45	92	70	101	286	118	44	27	22	32	38
24	61	44	105	72	94	297	116	44	23	24	27	33
25	58	44	103	70	90	308	113	41	24	21	26	27
26	56	47	93	73	110	302	107	40	26	22	27	30
27	62	50	88	68	178	293	105	38	25	23	28	33
28	59	52	78	74	182	283	99	40	25	28	30	42
29	57	64	78	70	---	271	100	42	24	39	60	42
30	50	65	77	69	---	251	98	39	23	37	89	38
31	54	---	73	68	---	244	---	39	---	38	67	---
TOTAL	1858	1478	2368	2054	3083	7836	4576	1711	857	639	1036	1714
MEAN	59.9	49.3	76.4	66.3	110	253	153	55.2	28.6	20.6	33.4	57.1
MAX	92	65	105	74	234	318	231	85	39	39	89	177
MIN	48	42	64	59	65	182	98	38	23	12	20	27
AC-FT	3690	2930	4700	4070	6120	15540	9080	3390	1700	1270	2050	3400
CFSM	0.02	0.02	0.03	0.02	0.04	0.09	0.06	0.02	0.01	0.01	0.01	0.02
IN.	0.03	0.02	0.03	0.03	0.04	0.11	0.06	0.02	0.01	0.01	0.01	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2003, BY WATER YEAR (WY)

	MEAN	132	247	292	349	440	322	159	55.8	98.8	196	153
MAX	4285	1450	2445	4204	2429	2136	2252	1244	310	657	1360	816
(WY)	1984	1979	1979	1993	1993	1915	1915	1973	1992	1915	1967	1975
MIN	23.3	28.2	33.5	37.0	38.8	43.9	36.3	23.7	11.0	20.6	33.4	21.5
(WY)	1954	1957	1954	1954	1954	1951	1955	1956	1956	2003	2003	1956

SUMMARY STATISTICS

	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1914 - 2003
ANNUAL TOTAL	26750.2	29210	
ANNUAL MEAN	73.3	80.0	220
HIGHEST ANNUAL MEAN			937
LOWEST ANNUAL MEAN			42.0
HIGHEST DAILY MEAN	3640	318	52200
LOWEST DAILY MEAN	6.8	12	6.1
ANNUAL SEVEN-DAY MINIMUM	8.4	15	8.1
ANNUAL RUNOFF (AC-FT)	53060	57940	159600
ANNUAL RUNOFF (CFSM)	0.027	0.029	0.080
ANNUAL RUNOFF (INCHES)	0.36	0.39	1.08
10 PERCENT EXCEEDS	80	193	426
50 PERCENT EXCEEDS	57	60	74
90 PERCENT EXCEEDS	15	24	34